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World Forum for Harmonization of Vehicle Regulations

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Item 2.2 of the provisional agenda
Coordination and organization of work: programme of work and documentation

Revised programme of Work of the World Forum for Harmonization of Vehicle Regulations (WP.29) and its Subsidiary Bodies

Note by the Secretariat*

The text reproduced below was prepared by the Secretariat for consideration by the World Forum. It takes into account the results and decisions taken at its 173rd session (ECE/TRANS/WP.29/1135) and its 174th session (ECE/TRANS/WP.29/1137) and the proposed agenda for its 175th session (ECE/TRANS/WP.29/1138) and updates also the information on the work of the six subsidiary Working Parties to WP.29.

* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, cluster 3.1), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

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Main topics of work of the World Forum for Harmonization of Vehicle Regulations and its subsidiary bodies

Top priorities for the work of the World Forum for Harmonization of Vehicle Regulations lie in the field of automated vehicles paving the way for a regulatory framework supporting the introduction of these emerging technologies towards future autonomous vehicles and in electro-mobility to address the challenges of limited fossil fuel resources, environmental protection and climate change.

1. Further development and implementation of the three Vehicle Agreements:

1.1. **1958 Agreement**: Following the adoption and entry into force of Revision 3 of the 1958 Agreement on 14 September 2017, the requirements for International Whole Vehicle Type Approval (IWVTA) are to be implemented via the new UN Regulation No. 0.

1.2. **1997 Agreement**: Further to amending the rules under the agreement, elements related to the performance and quality of periodic technical inspections have been prepared for an adaptation of the agreement and resolution R.E.6 covering skills and training for inspectors, requirements for testing equipment and supervision of test centres was established.

1.3. **1998 Agreement**: Following the establishment of Special resolution S.R.3, the implementation of the agreement will be followed with a more strategic approach by identifying key elements that define elements the work will focus on.

2. Horizontal activities:

2.1. Over the air updates of vehicle operational software, cyber security and data protection (ECE/TRANS/WP.29/1126, para. 23) as well as connectivity (V2V, V2I) and management of "big data" related to automation and to the user's profile

2.2. Performance requirements outside test conditions (ECE/TRANS/WP.29/1126, para. 21) and whole life compliance

3. Main topics of the Subsidiary Bodies:

3.1. GRB main topic is the work on a UN GTR for Quiet Road Transport Vehicles (QRTV).

3.2. GRE is focusing on the simplification of the lighting regulations following the establishment of the Resolution R.E.5 on the common specification of light source categories.

3.3. GRPE main area of work is related to the transformation of WLTP into a new UN Regulation and further harmonization of emission and energy consumption test procedures including RDE. Alternative powertrains/fuels and development of requirements for real world vehicle performance towards sustainable transport systems.

4.4. GRRF is establishing further elements for the UN vehicle regulatory framework towards automated driving. Amendments to UN Regulation No. 79 including ACSF both for low and high speed driving manoeuvres (automated lane-change), and amendments to UN Regulation No. 131 including AEBS for light vehicles (M_1 and N_1).

4.5. GRSG establishes a new UN Regulation on Advanced Driver Assistant Systems for Blind Spot Detection to early warn drivers of not automated vehicles.

4.6. GRSP focuses its work on a UN GTR for electric vehicle safety as well as on hydrogen vehicles, protection of vulnerable road users (e.g. UN GTR /UN Regulation on pedestrian protection, motorcycle helmets and child restraint systems).

Table 1
Subjects under consideration by the World Forum (WP.29)

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
1.1. 1958 Agreement	For document symbols and its availability, please refer to the agenda (1138)	
1.1.1. Draft amendments to existing UN Regulations to be considered at the March 2018 session		
UN Regulations Nos.:		
13 (Heavy vehicle braking)		
13-H (Brakes of M_1 and N_1 vehicles)		
14 (Safety-belt anchorages)		
16 (Safety-belts)		
22 (Protective helmets)		
44 (Child Restraint Systems)		
49 (Compression ignition and positive ignition (LPG and CNG) engines))		
51 (Noise of M and N categories of vehicles)		
54 (Tyres for commercial vehicles and their trailers)		
63 (Noise emissions of mopeds)		
75 (Tyres for L-category vehicles)		
83 (Emissions of M_1 and N_1 vehicles)		
85 (Measurement of the net power)		
89 (Speed limitation devices)		
96 (Diesel emission (agricultural tractors))		
106 (Tyres for agricultural vehicles)		
108 (Retreaded tyres for passenger cars and their trailers)		
109 (Retreaded tyres for commercial vehicles and their trailers)		
120 (Net power of tractors and non-road mobile machinery)		
129 (Enhanced Child Restraint Systems)		
137 (Frontal impact with focus on restraint systems)		
139 (Brake Assist Systems (BAS))		

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
140 (Electronic Stability Control (ESC))		
1.1.2. Draft New UN Regulation:		
Hydrogen and Fuel Cell Vehicles of category L		
Mechanical coupling components of combinations of agricultural vehicles		
1.1.3. Draft amendments to existing UN Regulations to be considered at the November 2018 session	1140	
UN Regulations Nos.:		
3 (Retro-reflecting devices)		
4 (Illumination of rear registration plates)		
6 (Direction indicators)		
7 (Position, stop and end-outline lamps)		
11 (Door latches and hinges)		
16 (Safety-belts)		
17 (Strength of seats)19 (Front fog lamps)		
23 (Reversing lamps)		
24 (Visible pollutants, measurement of power of Compression Ignition engine (Diesel smoke))		
27 (Advance warning triangles)		
29 (Cabs of commercial vehicles)		
34 (Prevention of fire risks),		
37 (Filament light sources)		
38 (Rear fog lamps)		
43 (Safety glazing),		
44 (Child restraint systems)		
46 (Devices for indirect vision),		
48 (Installation of lighting and light-signalling devices)		
50 (Position, stop, direction indicator lamps for mopeds and motorcycles)		
53 (Installation of lighting and light-signalling devices for L3 vehicles)		
67 (LPG vehicles),		

Subject		*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
69	(Rear-marking plates for slow moving vehicles)		
70	(Rear-marking plates for heavy and long vehicles)		
74	(Installation of lighting and light-signalling devices for mopeds)		
77	(Parking lamps)		
83	(Emissions of M_1 and N_1 vehicles)		
86	(Installation of lighting and light-signalling devices for agricultural vehicles)		
87	(Daytime running lamps)		
91	(Side marker lamps)		
94	(Frontal collision)		
95	(Lateral collision)		
98	(Headlamps with gas-discharge light sources)		
99	(Gas-discharge light sources)		
100	(Electric power trained vehicles)		
101	(CO_2 emission/fuel consumption)		
104	(Retro-reflective markings)		
105	(ADR vehicles),		
110	(CNG and LNG vehicles),		
112	(Headlamps emitting an asymmetrical passing-beam)		
113	(Headlamps emitting a symmetrical passing-beam)		
119	(Cornering lamps)		
123	(Adaptive front lighting systems (AFS))		
128	(LED light sources)		
129	(Enhanced Child Restraint Systems)		
132	(CO_2 emission/fuel consumption)		
137.	(Frontal impact with focus on restraint systems)		
1.1.4.	Proposal for new UN Regulations to be considered at the November 2018 session	1140	
	Light-Signalling Devices (LSD)		
	Road Illumination devices (RID)		
	Retro-Reflective Devices (RRD)		

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
1.1.5. Status of the Agreement and of the annexed UN Regulations, including the latest situation report	343/Rev.26	
1.1.6. Development of an International Whole Vehicle Type Approval (IWVTA) system,		
1.1.7. Consideration of amendments to the 1958 Agreement.		
1.1.8. Development of an electronic database for the exchange of type approval documentation (DETA)		
1.2. 1998 Agreement (Global)	For document symbols and its availability, please refer to the agenda (1138)	
1.2.1. Consideration of draft UN GTRs and amendments to them:		
15 (Worldwide harmonized Light vehicles Test Procedures (WLTP))		
19 (Evaporative Test emission procedures for the Worldwide harmonized Light vehicles Test Procedures (EVAP WLTP))		
1.2.2. Consideration of Mutual Resolutions		
Consideration of draft amendments to Mutual Resolution No. 1 (M.R.1)		
Nil		
Consideration of draft amendments to Mutual Resolution No. 2 (M.R.2)		
Nil		
Consideration of new Mutual Resolutions		
Nil		
1.2.3. Guidance for the development of UN GTRs:		
Nil		
1.2.4. Progress on the development of new UN GTRs and of amendments to established UN GTRs		
1.2.5. Consideration of draft UN GTRs and amendments to them to be considered at the June 2018 session		
UN GTR Nos.:		
9 (Pedestrian safety)		
1.2.6. Consideration of new Mutual Resolutions		
1.2.7. Guidance for the development of UN GTRs:		

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
Nil		
1.2.8. Progress on the development of new UN GTRs and of amendments to established UN GTRs		
2 (Worldwide Motorcycle emission Test Cycle (WMTC));		
3 (Motorcycle braking);		
6 (Safety glazing);		
7 (Head restraints);		
9 (Pedestrian safety):		
13 (Hydrogen and Fuel Cell Vehicles (HFCV) – Phase 2);		
15 (Worldwide harmonized Light vehicle Test Procedures (WLTP) – Phase 2);		
16 (Tyres)		
Draft UN GTR on Quiet Road Transport Vehicles (QRTV)		
1.2.9. Exchange of views on items for new UN Global Technical Regulations		
Harmonization of side impact		
Electric vehicles and the environment		
Specifications for the 3-D H point machine		
Hydrogen and Fuel Cell Vehicles (HFCV) (UN GTR No. 13) – Phase 2		
Global Real Driving Emissions		
1.3. 1997 Agreement (Inspections)	For document symbols and its availability, please refer to the agenda (1138)	
1.3.1. Future development of the Agreement		
1.3.2. Update of UN Rules Nos. 1 and 2		
1.3.3. Consideration of new UN Rules		
Proposals for a new Rule on Periodical Technical Inspections of motor vehicles using Compressed Natural Gas (CNG), Liquefied Petroleum Gas (LPG) and/or Liquefied Natural Gas (LNG) in their propulsion system		
Proposals for a new Rule on Periodical Technical Inspections of motor vehicles with electric and hybrid-electric propulsion system		

Table 2
Subjects under consideration by the Working Party on Noise (GRB)

Subject	*Document symbol ECE/TRANS/WP.29/*	*Documentation availability*
2.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the sixty-eighth session (GRB/2018/31)
2.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
28 (Audible warning devices);		
41 (Noise of motorcycles);		
51 (Noise of M and N categories of vehicles);		
59 (Replacement silencing systems);		
92 (Replacement exhaust silencing systems for motorcycles);		
117 (Tyre rolling noise and wet grip adhesion);		
2.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda of the sixty-eighth session (GRB/2018/31)
UN GTR on Quiet Road Transport Vehicles		
2.3. 1997 Agreement (Inspections)		
Nil		
2.4. Proposal for draft recommendations or amendments to existing recommendations		
Nil		
2.5. Miscellaneous items		For document symbols and its availability, please refer to the agenda of the sixty-eighth session (GRB/2018/31)
Influence of road surface on tyre rolling sound emissions		
Definitions and acronyms in UN Regulations under the responsibility of GRB		
Proposal for amendments to R.E.3		
Development of the International Whole Vehicle Type Approval (IWVTA) system		

Table 3
Subjects under consideration by the Working Party on Lighting and Light-Signalling (GRE)

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
3.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the eightieth session (GRE/2018/31)
3.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
6 (Direction indicators);		
7 (Position, stop and end-outline lamps);		
10 (Electromagnetic compatibility);		
19 (Front fog lamps);		
23 (Reversing lamps);		
38 (Rear fog lamps);		
45 (Headlamp cleaners);		
48 (Installation of lighting and light-signalling devices);		
50 (Position, stop, direction indicator lamps for mopeds and motorcycles);		
53 (Installation of lighting and light signalling devices for L_3 vehicles);		
77 (Parking lamps);		
86 (Installation of lighting and light-signalling devices for agricultural tractors);		
87 (Daytime running lamps);		
91 (Side marker lamps);		
98 (Headlamps with gas-discharge light sources);		
112 (Headlamps emitting an asymmetrical passing-beam)		
113 (Headlamps emitting a symmetrical passing-beam);		
119 (Cornering lamps);		
123 (Adaptive front lighting systems (AFS))		
3.1.2. Proposal for draft new UN Regulations:		
Nil		

Subject		*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
3.2.	**1998 Agreement (Global)**		
	Possibility to develop further UN GTRs		
3.3.	**1997 Agreement (Inspections)**		
	Nil		
3.4.	**Proposal for draft recommendations or amendments to existing recommendations**		
	Nil		
3.5.	**Miscellaneous items**	For document symbols and its availability, please refer to the agenda of the eightieth session (GRE/2018/31)	
	Pending amendment proposals		
	Simplification of lighting and light-signalling UN Regulations		
	Amendments to the Convention on Road Traffic (Vienna 1968)		
	Development of an international whole vehicle type approval (IWVTA)		
	Phantom light and colour washout		
	Direction for future GRE work		
	Work progress of the International Automotive Lighting and Light Signalling Expert Group (GTB) task forces		

Table 4
Subjects under consideration by the Working Party on Pollution and Energy (GRPE)

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
4.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the seventy-seventh session (GRPE/2018/11)
4.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
40 (Emission of gaseous pollutants by motorcycles);		
47 (Emission of gaseous pollutants of mopeds)		
49 (Emissions of compression ignition and positive ignition (LPG and CNG) engines);		
68 (Measurement of the maximum speed, including electric vehicles);		
83 (Emissions of M_1 and N_1 vehicles);		
85 (Measurement of the net power);		
96 (Diesel emission (agricultural tractors));		
101 (CO_2 emissions/fuel consumption);		
103 (Replacement pollution control devices);		
115 (LPG and CNG retrofit systems);		
120 (Net power of tractors and non-road mobile machinery);		
132 (Retrofit Emissions Control devices (REC));		
133 (Recyclability of motor vehicles);		
4.1.2. Proposal for draft new UN Regulations		
Nil		
4.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda of the seventy-seventh session (GRPE/2018/11)
2 (Worldwide motorcycle emissions test cycle (WMTC));		
4 (Worldwide harmonized Heavy-Duty Certification Procedure (WHDC));		
5 (Worldwide harmonized Heavy duty on-board diagnostic systems (WWH-OBD));		
10 (Off-Cycle Emissions (OCE));		
11 (Non-road mobile machinery engines);		
15 (Worldwide harmonized Light Vehicle Test Procedure (WLTP))		

Subject	*Document symbol ECE/TRANS/WP.29...*	*Documentation availability*
4.2.1. Proposal for developing new UN Global Technical Regulations		
Vehicles Interior Air Quality (VIAQ)		
4.3. 1997 Agreement (Inspections)		
Nil		
4.4. Proposal for draft recommendations or amendments to existing recommendations		
Nil		
4.5. Miscellaneous items	For document symbols and its availability, please refer to the agenda of the seventy-seventh session (GRPE/2018/11))	
World-wide harmonized Light vehicles Test Procedure (WLTP)		
Heavy Duty Hybrids (HDH)		
Particle Measurement Programme (PMP)		
Gaseous Fuelled Vehicles (GFV)		
Environmental and Propulsion Performance Requirements (EPPR) for L-category vehicles		
Electric Vehicles and the Environment (EVE)		
Vehicle Propulsion System Definitions (VPSD)		
Fuel Quality (FQ)		
International Whole Vehicle Type Approval (IWVTA)		
Exchange of information on national and international requirements on emissions		
Vehicles Interior Air Quality (VIAQ)		
Global Real Driving Emissions (RDE)		

Table 5
Subjects under consideration by the Working Party on Brakes and Running Gear (GRRF)

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
5.1. 1958 Agreement	For document symbols and its availability, please refer to the agenda of the eighty-seventh session (GRRF/2018/13)	
5.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
13 and 13-H (Braking);		
30 (Tyres for passenger cars and their trailers);		
54 (Tyres for commercial vehicles and their trailers);		
55 (Mechanical couplings);		
64 (Temporary use spare unit, run flat tyres, run flat-system and tyre pressure monitoring system);		
75 (Motorcycle tyres);		
78 (Motorcycle braking);		
79 (Steering equipment);		
89 (Speed limitation devices);		
90 (Replacement brake linings);		
106 (Tyres for agricultural vehicles);		
109 (Retreaded tyres for commercial vehicles and their trailers);		
117 (Tyres - Rolling resistance, rolling noise and wet grip);		
139 (Brake Assist Systems);		
140 (Electronic Stability Control);		
141 (Tyre Pressure Monitoring Systems);		
142 (Tyres installation)		
5.1.2. Proposal for draft new UN Regulations:		
Nil		
5.1.3. Vehicle automation		
Remote Control Parking (RCP)		
Valet Parking		
Lane Keeping Assist System (LKAS)		
Parking Assist Systems (PAS)		
Automated Controlled Steering Function (ACSF)		

Subject		*Document symbol ECE TRANS WP.29 ...*	*Documentation availability*
5.2.	**1998 Agreement (Global)**	For document symbols and its availability, please refer to the agenda of the eighty-seventh session (GRRF/2018/13)	
	3 (Motorcycle braking);		
	16 (Tyres)		
5.3.	**1997 Agreement (Inspections)**		
	Nil		
5.4.	**Proposal for draft recommendations or amendments to existing recommendations:**		
	Nil		
5.5.	**Miscellaneous items**	For document symbols and its availability, please refer to the agenda of the eighty-sixth session (GRRF/2018/13)	
	Intelligent Transport Systems (ITS)		
	Lane keeping assist system (LKAS) and Parking assist systems (PAS)		
	Automatically Commanded Steering Function (ACSF)		
	International Whole Vehicle Type Approval (IWVTA)		
	Modular Vehicle Combinations (MVC)		
	Exchange of views on innovations and relevant national activities		

Table 6
Subjects under consideration by the Working Party on General Safety Provisions (GRSG)

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
6.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda for the 115th session (GRSG/2018/10)
6.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
39 (Speedometer/odometer);		
43 (Safety glazing);		
46 (Devices for indirect vision);		
55 (Mechanical couplings);		
60 (Driver operated controls (mopeds/motorcycles));		
66 (Strength of superstructure (buses));		
67 (LPG vehicles);		
73 (Lateral protection devices);		
105 (ADR vehicles);		
110 (CNG and LNG vehicles);		
116 (Anti-theft and alarm systems);		
118 (Burning behaviour of materials);		
121 (Identification of controls, tell-tales and indicators)		
6.1.2. Proposal for draft new UN Regulations:		
Automatic Emergency Call Systems (AECS)		
Advanced Driver Assistance Systems for blind spot monitoring (ADAS).		
6.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda for the 115th session (GRSG/2018/10)
Possibility to develop further UN GTRs		
6 (Safety glazing)		
6.3. 1997 Agreement (Inspections)		
Nil		
6.4. Proposal for draft recommendations or amendments to existing recommendations:		
Nil		

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
6.5. Miscellaneous items	For document symbols and its availability, please refer to the agenda for the 115th session (GRSG/2018/10)	
International Whole Vehicle Type Approval (IWVTA)		
Consolidated Resolution on the Construction of Vehicles (R.E.3)		
Event Data Recorder		
Three-dimensional H-point machine		

Table 7
Subjects under consideration by the Working Party on Passive Safety (GRSP)

Subject	*Document symbol ECE/TRANS/WP.29...*	*Documentation availability*
7.1. 1958 Agreement	For document symbols and its availability, please refer to the agenda for the sixty-fourth session (GRSP/2018/23)	
7.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
14 (Safety-belt anchorages);		
16 (Safety-belts);		
17 (Strength of seats);		
21 (Interior fittings);		
22 (Protective helmets);		
25 (Head restraints);		
44 (Child restraints systems);		
80 (Strength of seats and their anchorages (buses));		
94 (Frontal collision);		
100 (Electric power trained vehicles);		
127 (Pedestrian safety);		
129 (Enhanced child restraint systems)		
7.1.2. Proposal for draft new UN Regulations:		
Nil		
7.2. 1998 Agreement (Global)	For document symbols and its availability, please refer to the agenda for the sixty-fourth session (GRSP/2018/23)	
1 (Door locks and door retention components);		
7 (Head restraints);		
9 (Pedestrian safety);		
13 (Hydrogen and Fuel Cells Vehicles)		
Side impact dummies		
Electric vehicles		
Vehicle Crash compatibility		
7.3. 1997 Agreement (Inspections)		
Nil		
7.4. Proposal for draft recommendations or amendments to existing recommendations		
Nil		

Subject	*Document symbol ECE/TRANS/WP.29/...*	*Documentation availability*
7.5. Miscellaneous items	For document symbols and its availability, please refer to the agenda for the sixty-fourth session (GRSP/2018/23)	
Exchange of information on national and international requirements on passive safety		
International Whole Vehicle Type Approval (IWVTA)		
3-D H point machine		
Intelligent Transport Systems (ITS)		
Definition and acronyms in UN Regulations under GRSP responsibilities		